AMENDMENTS TO THE CLAIMS

1 (currently amended) A frame generating~~synchronization~~ method comprising:

inserting a synchronous word into data at a position determined based on a noise cycle of a transmission line in order to generate a frame; and

~~composing data and a synchronous word to generate a frame;~~

transmitting the generated frame from a transmitter to a receiver via the~~a~~ transmission line~~.~~;

~~wherein said composing the data and the synchronous word arranges the synchronous word based on noise cycle of the transmission line.~~

2 (currently amended) A frame generating~~synchronization~~ method as recited in claim 1, wherein said position~~the synchronous word~~ is arranged according to a predetermined arrangement algorithm.

3 (currently amended) A frame generating~~synchronization~~ method as recited in claim 2, wherein a parameter of the predetermined arrangement algorithm comprises at least one of a length of the synchronous word and an arrangement interval of the synchronous word.

4 (currently amended) A frame generating~~synchronization~~ method as recited in claim 3~~1~~, wherein the length of the synchronous word is approximately~~almost~~ equal to a multiple of a~~the~~ length ~~of a multiple~~ of the noise cycle by a natural number.

5 (currently amended) A frame generating~~synchronization~~ method comprising:

inserting a plurality of synchronous words into data at a position determined based on a noise cycle of a transmission line in order to generate a frame; and

~~composing data and a plurality of synchronous words to generate a frame;~~

transmitting the generated frame from a transmitter to a receiver via the~~a~~ transmission line~~.~~;

~~wherein said composing the data and the plurality of synchronous words arranges the plurality of synchronous words based on noise cycle of the transmission line.~~

6 (currently amended) A frame generating~~synchronization~~ method as recited in claim 5, wherein said <u>inserting a plurality of synchronous words into data</u>~~composing the data and the synchronous words~~ arranges the plurality of synchronous words over a section<u> of frame</u> as long as the noise cycle.

7 (currently amended) A frame generating~~synchronization~~ method as recited in claim 5, wherein <u>a</u>~~the~~ length of an arrangement interval of at least <u>two</u>~~one pair~~ of the plurality of synchronous words is different from <u>a</u>~~the~~ length of the noise cycle.

8 (currently amended) A frame generating~~synchronization~~ method as recited in claim 5, wherein at least <u>two</u>~~one pair~~ of the plurality of synchronous words are arranged using the same pattern.

9 (currently amended) A frame generating~~synchronization~~ method as recited in claim 1, wherein <u>a</u>~~the~~ length of the noise cycle is the length of a time interval whose noise level in the transmission line is beyond a predetermined threshold.